## Unit 2 Review Sheet <br> Rational Numbers <br> Unit 2

For each of the following problems, tell what place value the $\mathbf{5}$ is located in.

1. 0.157
2. -43.59
tenths
3. 59.62
tens
hundredths
4. $10.453+(-12.5)=$
$-2.047$
5. $-23.87-26.13=$
$-50$
6. $-20.9+(-5.23)=$
7. $-0.74-(-0.123)=$
$-26.13$

For each of the following rational numbers, tell whether they are TERMINATING or REPEATING decimals.
> 11. 0.66 terminating
12. $4 . \overline{5}$ repeating
13. $\frac{1}{3}$ repeating
15. $\frac{8}{9} \frac{}{\text { RePeatho }}$
14. -2.567 terminating
16. $\frac{2}{5}=.4$ terminating

Write each fraction as a decimal and each decimal as a fraction. Show your work.

$$
\begin{array}{ll}
\text { 17. }-\frac{3}{20}=-0.15 & \text { 18. } 3 \frac{5}{8}=3.625
\end{array} \begin{aligned}
& \text { 19. }-9.36 \\
& \text { 20. } \frac{7}{18}=0.3 \frac{9}{25}
\end{aligned}
$$

Fill in the blank with <.>, or = to make the statement true. Show your work.
23. $-\frac{1}{2}>-\frac{3}{5}$
24. $\frac{7}{20}$
$>0.34$
25. -8.56 $\qquad$ $-8.71$
26. 0.5
 $0.4 \overline{9}$
27. $\frac{5}{8}<\frac{2}{3}$

Order each set of numbers from least to greatest. Show your work.
28. $\left\{0,-\frac{4}{9}, \frac{1}{3}, \frac{4}{7},-\frac{5}{7}\right\}$
29. $\left\{2 \frac{1}{4}, 2 \frac{4}{7}, 2.3,2.23\right\}$
$\frac{-5}{7}, \frac{-4}{9}, 0, \frac{1}{3}, \frac{4 / 7}{7}$
$2.23,2 \frac{1}{4}, 2.3,24 / 7$

Simplify. Show all of your work.
30.

$$
\frac{6}{11}-\frac{10}{11}=-\frac{4}{11}
$$

31. 

$$
\left(-\frac{6}{7}\right)+\left(-\frac{2}{3}\right)=-1 \frac{11}{21} \text { or } \frac{-32}{21}
$$

32. 

$$
\frac{2}{5}+\left(-\frac{3}{5}\right)=\frac{-1}{5}
$$

33. $2 \frac{1}{8}+3 \frac{7}{12}=5 \frac{17}{24}$ or $\frac{137}{24}$
34. 

$$
4 \frac{2}{9}-\left(-3 \frac{2}{3}\right)=7 \frac{8}{9} \text { or } \frac{71}{9}
$$

Simplify. Show all of your work.
36. $\frac{5}{9}-\frac{4}{5}=-\frac{11}{45}$
38. $\frac{1}{4}-\frac{5}{8}=\frac{-3}{8}$
40. $3 \frac{3}{5} \cdot\left(-2 \frac{1}{2}\right)=-9$
42.
( $\left(-\frac{6}{7}\right)\left(-\frac{2}{3}\right)=\frac{4}{7}$
44. $3 \frac{1}{2} \cdot 3 \frac{7}{15}=12 \frac{2}{15}$ or $\frac{182}{15}$
46.

$$
\frac{2}{9} \div\left(-\frac{2}{3}\right)=-\frac{1}{3}
$$

47. 

$$
\frac{-2 \frac{3}{5}}{1 \frac{1}{4}}=-2 \frac{2}{25} \text { or } \frac{-52}{25}
$$

48. $4 \frac{1}{4} \div 8 \frac{3}{8}=\frac{34}{67}$
